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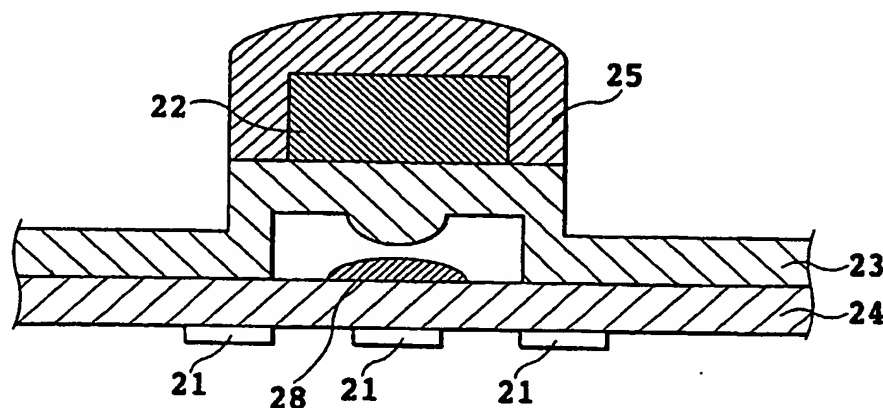
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[続葉有]

(54) Title: POINTING DEVICE

(54) 発明の名称: ポインティングデバイス



(57) Abstract: A pointing device being improved in assembling performance, capable of being downsized, being long in product life. Magnetic sensors (21) are disposed on a mounting substrate (24), two each symmetrically along the X axis and Y axis. A switch (28) is disposed on the silicone resin (23) side of the mounting substrate (24) to provide a switching function so that the switching function is satisfied when a magnet cover (25) is pushed in a magnet (22) direction. Although originally designed to output coordinates values of an input point, the pointing device can be provided with a determining function in addition to coordinates values by being given a switching function. Silicone resin (23), when under an external force, easily deforms, and, when the external force is removed, immediately restores to an initial condition not under the external force.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/03918

A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G06F3/02, 3/033, G06K11/16-11/18, G05G9/02-9/053, H01H25/04,
36/00-36/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 4-172521 A (Fujitsu Ltd.), 19 June, 1992 (19.06.92), Page 3, lower left column, lines 5 to 18; Fig. 1 & EP 0477098 A2 Page 8, lines 36 to 43; Fig. 21 & US 5504502 A	1-38
Y	JP 9-128139 A (Sharp Corp.), 16 May, 1997 (16.05.97), Column 3, line 47 to column 5, line 41; Fig. 1 (Family: none)	1-38
Y	JP 8-185257 A (Matsushita Electric Industrial Co., Ltd.), 16 July, 1996 (16.07.96), Column 3, lines 36 to 49; Fig. 3 (Family: none)	1-38

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
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30 July, 2002 (30.07.02)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-34644 A (Oki Electric Industry Co., Ltd.), 07 February, 1997 (07.02.97), Column 5, lines 5 to 39; Fig. 2 & US 5973668 A Column 3, line 43 to column 4, line 27; Fig. 3	1-38
Y	JP 8-152961 A (Fujitsu Ltd.), 11 June, 1996 (11.06.96), Column 2, line 48 to column 3, lines 3, 24 to 38; Fig. 1 (Family: none)	24-38
Y	JP 6-35599 A (Fujitsu Ltd.), 10 February, 1994 (10.02.94), Column 4, lines 6 to 20; Fig. 4 (Family: none)	24-27
A	JP 6-318134 A (Kabushiki Kaisha Leben), 15 November, 1994 (15.11.94), Column 2, lines 22 to 33; Fig. 1 (Family: none)	1-38